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APPLICATION NO.	PPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/026,302	1	12/19/2001	Vladimir V. Martin	2086 8077		
23358	7590	08/19/2003				
KOREN A		- '	EXAMINER			
MOLECULAR PROBES, INC. 29851 WILLOW CREEK ROAD				KIFLE, I	BRUCK	
EUGENE, O	PR 97402	-9132		ART UNIT PAPER NUMBER		
				1624		
				DATE MAILED: 08/19/2003	DATE MAILED: 08/19/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	T & 11 41							
	Application No.	Applicant(s)						
065 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	10/026,302	MARTIN ET AL.						
Office Action Summary	Examiner	Art Unit						
	Bruck Kifle, Ph.D.	1624						
The MAILING DATE of this communication app Period for Reply	pears on the cover she	et with the correspondence add	dress					
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, my within the statutory minimum will apply and will expire SIX (6, cause the application to beco	nay a reply be timely filed of thirty (30) days will be considered timely MONTHS from the mailing date of this co me ABANDONED (35 U.S.C. § 133).						
1)⊠ Responsive to communication(s) filed on 16.	June 2003 .							
	is action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims								
4)⊠ Claim(s) <u>1-51</u> is/are pending in the application								
4a) Of the above claim(s) <u>21-41 and 44-51</u> is/a	re withdrawn from cor	nsideration.						
5) Claim(s) is/are allowed.								
	6) Claim(s) <u>1-21,42 and 43</u> is/are rejected.							
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/oApplication Papers	r election requirement	i.						
9) The specification is objected to by the Examine	ır.							
10) The drawing(s) filed on is/are: a) accept	pted or b) objected to	by the Examiner.						
Applicant may not request that any objection to th	e drawing(s) be held in a	abeyance. See 37 CFR 1.85(a).						
11)☐ The proposed drawing correction filed on	_ is: a)∏ approved b)	disapproved by the Examine	er.					
If approved, corrected drawings are required in reply to this Office action.								
12)☐ The oath or declaration is objected to by the Ex	aminer.							
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign	n priority under 35 U.S	S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:								
 Certified copies of the priority document 	s have been received							
2. Certified copies of the priority document	s have been received	in Application No						
 Copies of the certified copies of the prior application from the International Bu See the attached detailed Office action for a list 	reau (PCT Rule 17.2(a)).	Stage					
14)⊠ Acknowledgment is made of a claim for domesti	I)⊠ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language pro	• •							
Attachment(s)								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5	5) 🔲 Notic	view Summary (PTO-413) Paper No(see of Informal Patent Application (PTC)r:						

Application/Control Number: 10/026,302

Art Unit: 1624

Election/Restrictions

Applicant's election of compound 138 on pages 56-57 in Paper No. 10 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

The elected compound was not found in the search as is allowable. The search was expanded to embrace the core

Thus, compounds of this scope of the core identified above along with the definitions of the variables have been examined. Claims 21-41 and 44-51 are withdrawn from consideration because they are drawn to methods and kits that raise different issues of patentability and require separate searches.

Improper Markush Rejection

Claims 1-21 are rejected under a judicially created doctrine as being drawn to an improper Markush group, that is, the claims lack unity of invention. The variables E¹, E², E³, Y, P and Q are defined in such a way that they keep changing the core of the compound that determines the classification. By changing these values, several patentably distinct and independent compounds are claimed. In order to have unity of invention the compounds must have "a community of chemical or physical characteristics" which justify their inclusion in a common group, and that such inclusion is not repugnant to principles of scientific classification"

Application/Control Number: 10/026,302

Art Unit: 1624

In re JONES (CCPA) 74 USPQ 149 (see footnote 2). The structural formula of the compound of

Page 3

claim 1 does not have a significant structural feature that is shared by all of its alternatives which is inventive. The structure has only two benzene rings as common. This feature is not inventive. Compounds embraced by these claims are so diverse in nature that a prior art anticipating a claim with respect to one member under 35 USC 102 would not render obvious the same claim under

with respect to one member under 33 050 102 would not render 55 100 the same claim und

35 USC 103. This is evidentiary of patentably distinct and independent inventions.

Limiting the claims to the group identified above as searched would overcome this rejection.

Claim Rejections - 35 USC § 112

Claims 1-21, 42 and 43 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- i) The term "heteroaryl" is indefinite because it is not known how many atoms are present, how many and what kind of heteroatoms are involved, what size ring is intended and how many rings are present.
- ii) The group "DYE" is defined as "a chemical moiety with an absorption maximum beyond 320 nm". One skilled in the art cannot say which chemical moiety has an absorption maximum beyond 320 nm without taking the billions of chemical moieties known and testing each. Thus, this group is open-ended.
- iii) It is unclear what "a biologically compatible esterifying group" or "a biologically compatible salt" is.

Application/Control Number: 10/026,302

Art Unit: 1624

Page 4

iv) The groups at R_{X} are unclear. These groups are not radicals but compounds or classes of

compounds. Appropriate correction is required. Also, language such as "a reactive group

selected from the group consisting of" in place of "that is" is suggested.

v) The metes and bounds of S_c as "a conjugated substance" is unclear.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bruck Kifle, Ph.D. whose telephone number is 703-305-4484.

The examiner can normally be reached on 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mukund J. Shah can be reached on 703-308-4716. The fax phone number for the

organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-308-1235.

Bruck Kifle, Ph.D. Primary Examiner

Art Unit 1624

BK

August 15, 2003